

FIGURE 1

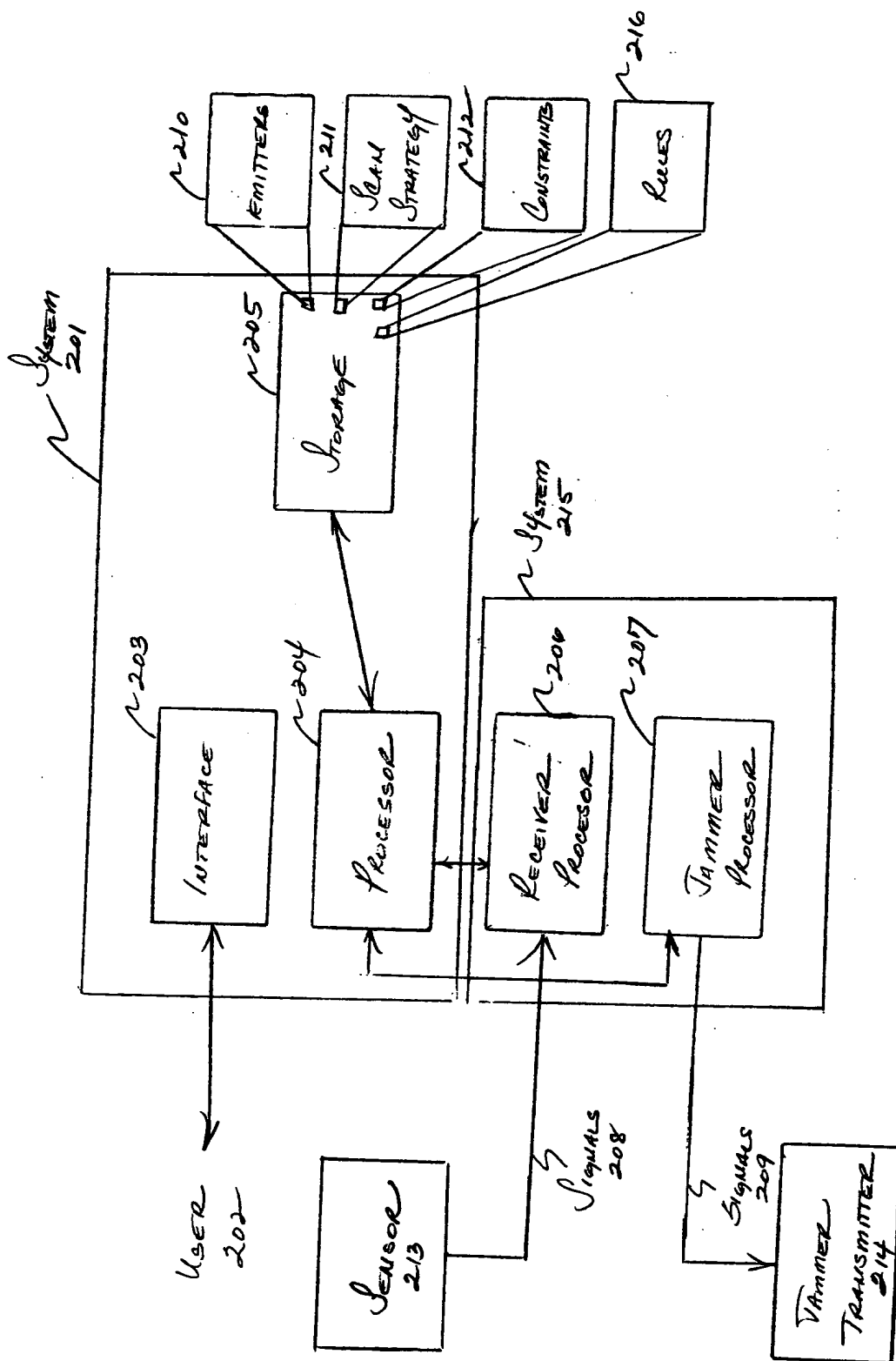
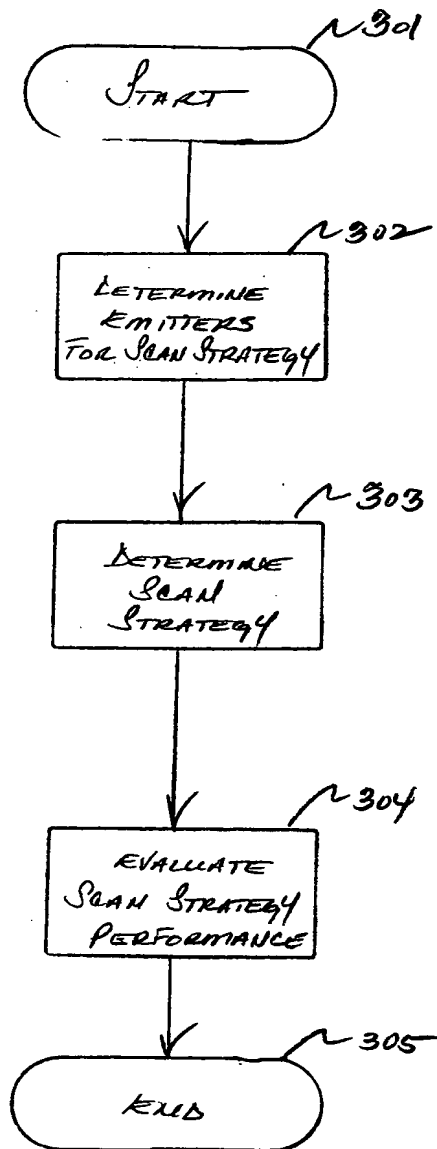


Figure 2



PROCESS  
300

FIGURE 3

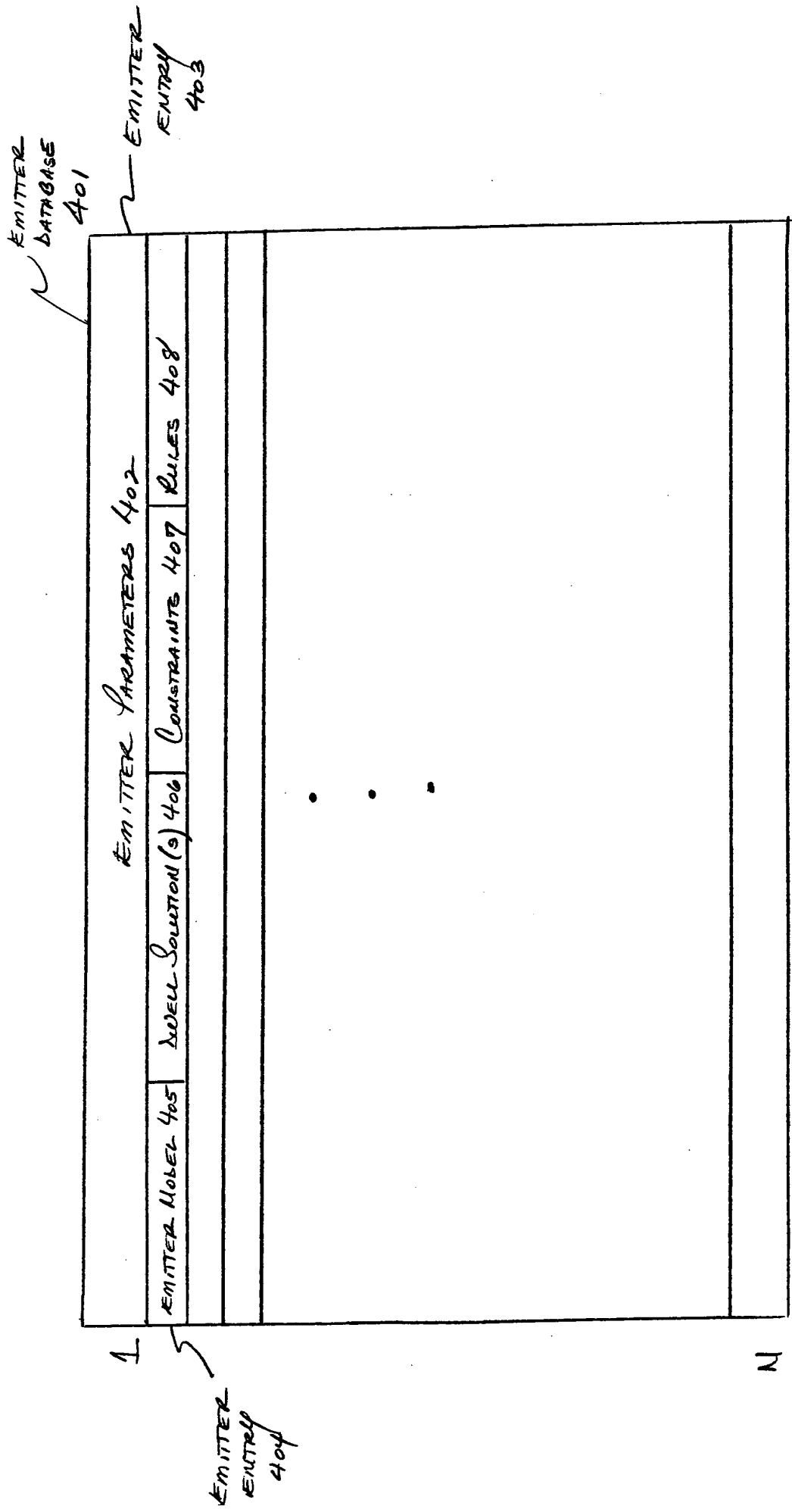


Figure 4

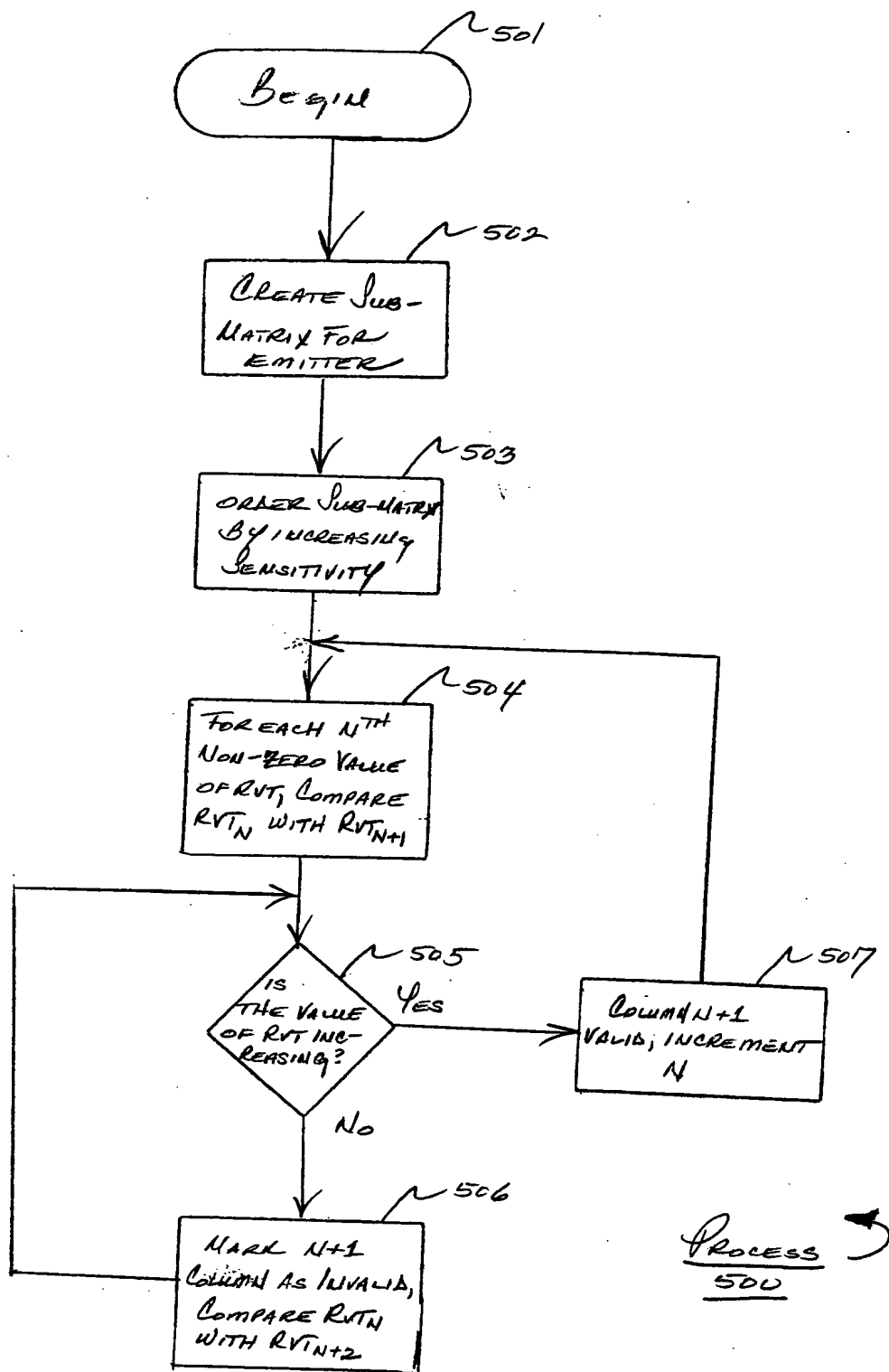


FIGURE 5

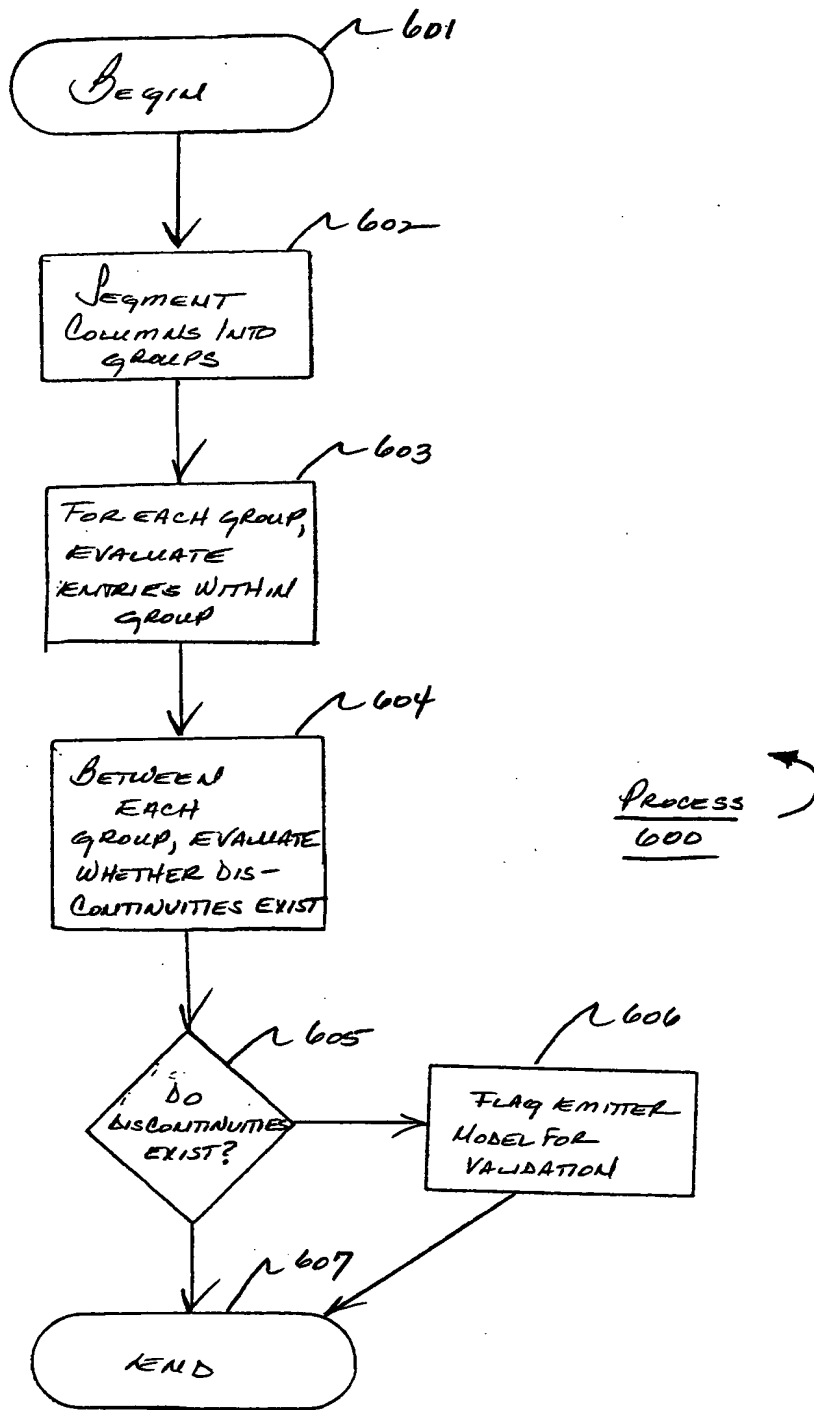


FIGURE 6

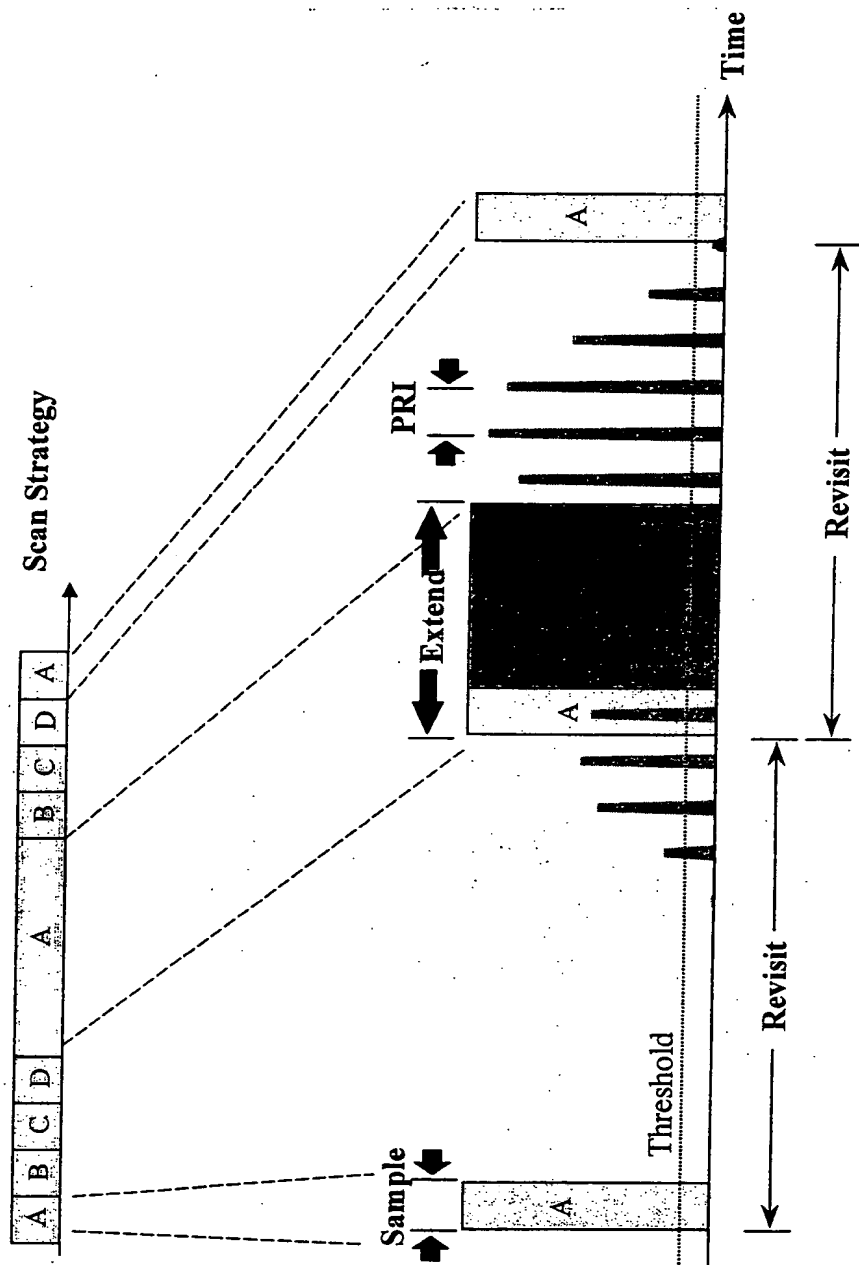


Figure 17

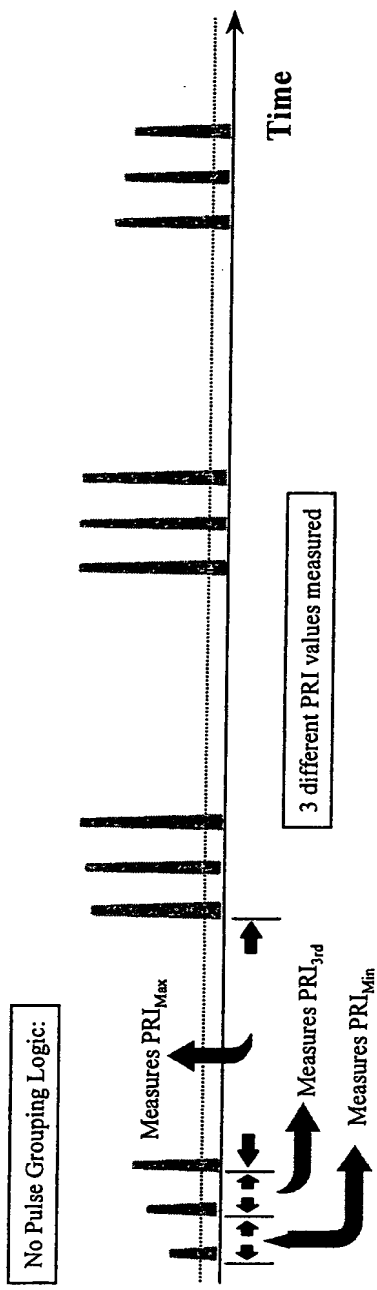


Figure 8A

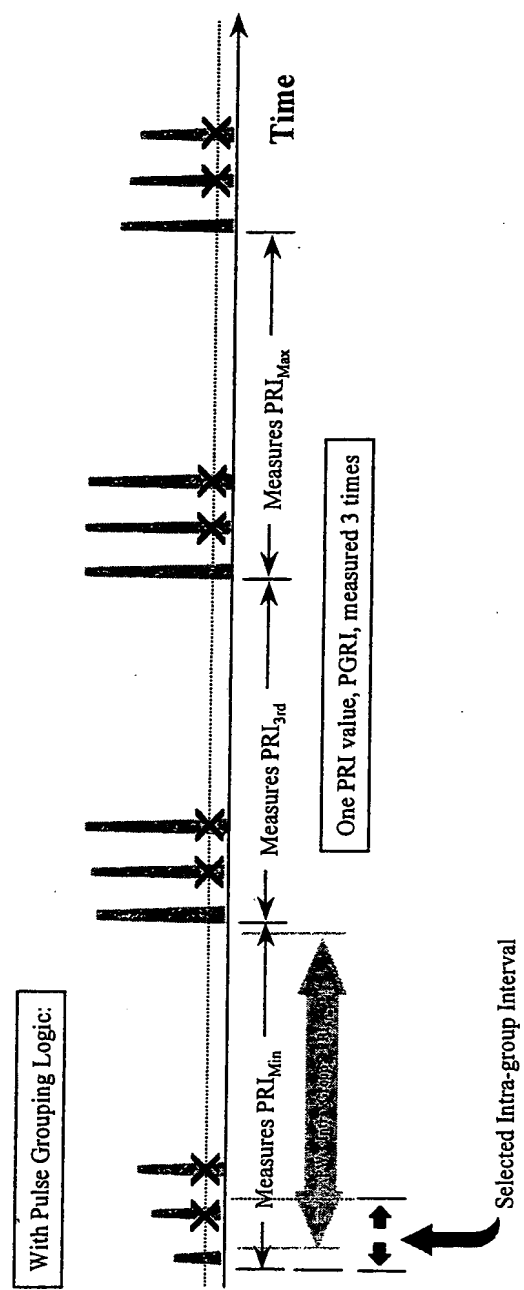


Figure 8B



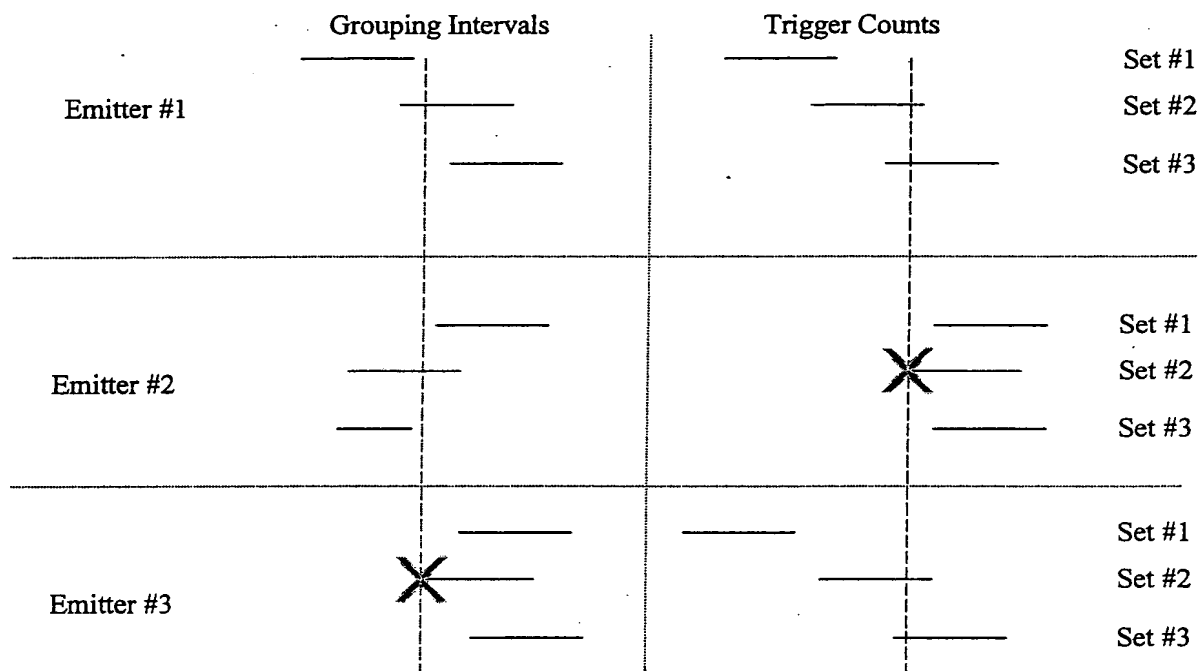


Figure 9

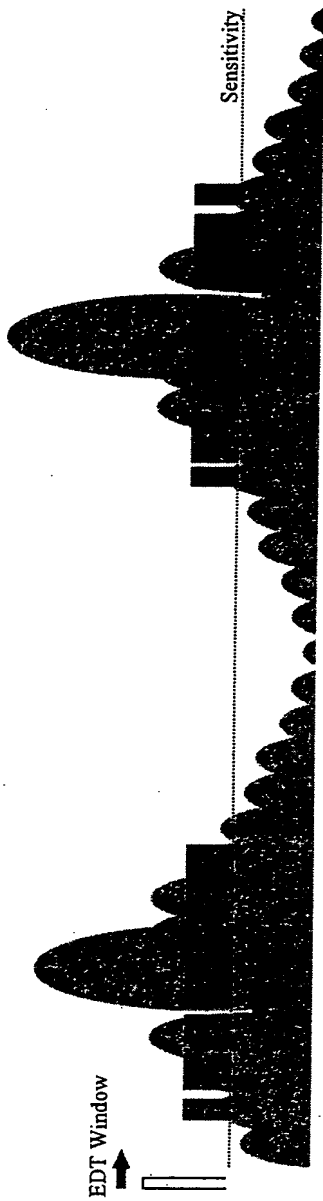


Figure 10A

*Discrete Illuminations (TIBS)*

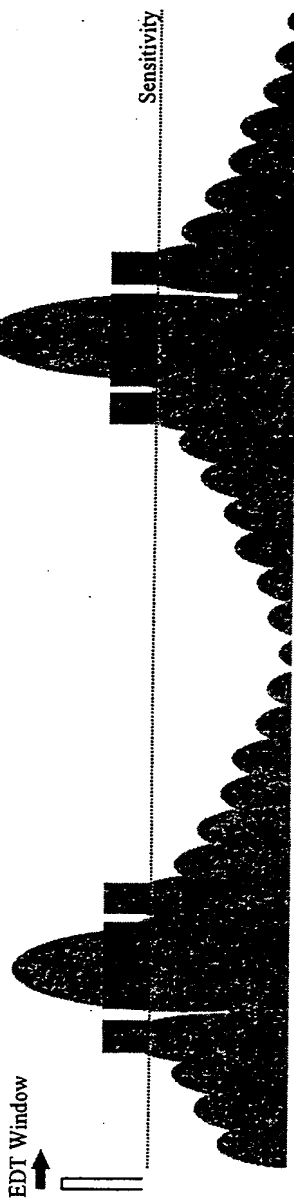


Figure 10B

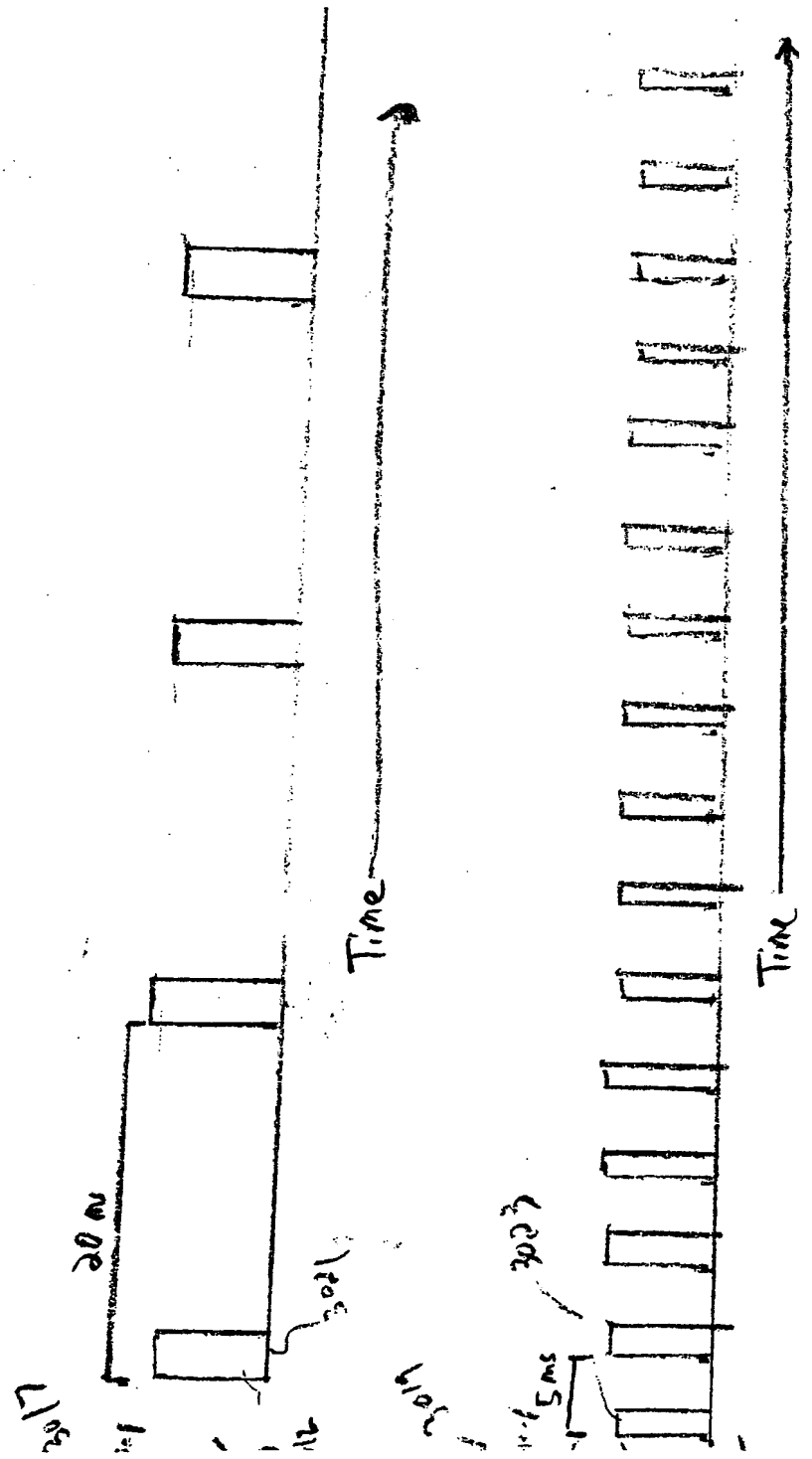
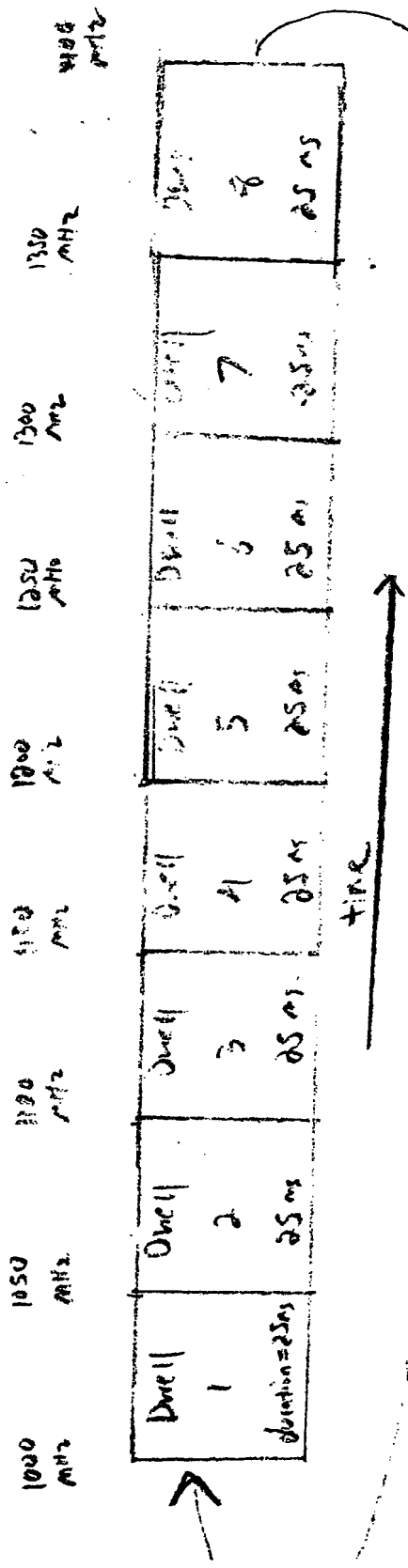
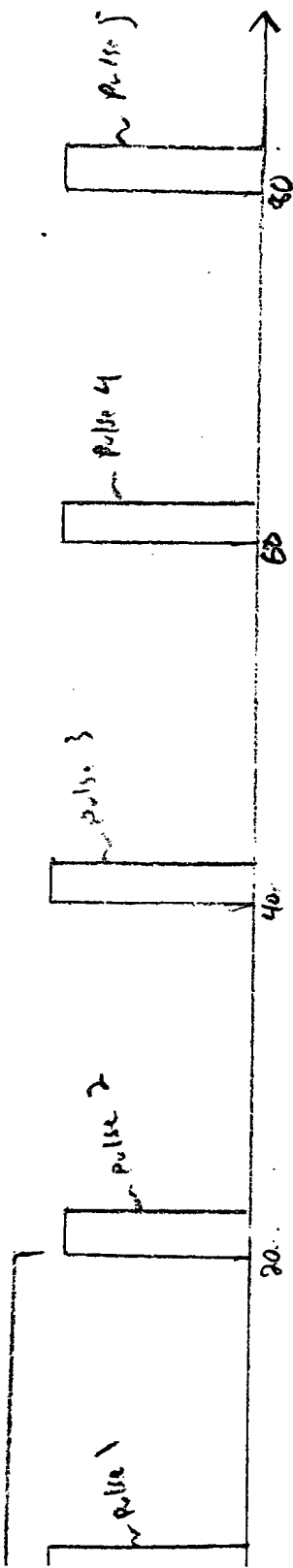


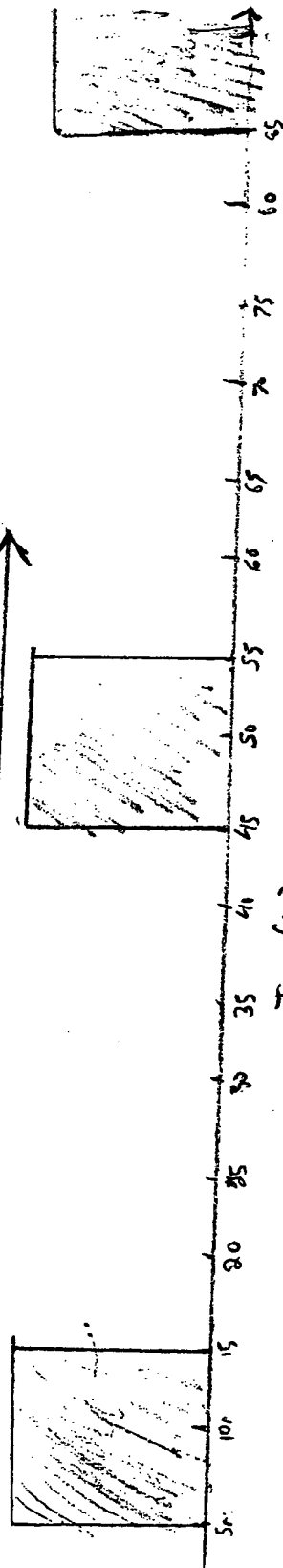
Figure 11

PRI = 20ns



Emitter 3109

Time (ms)

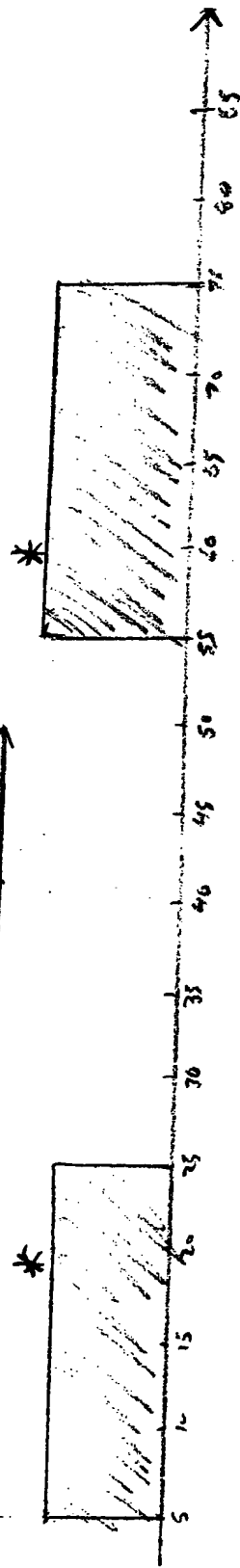


Solution 1

Dwell Duration = 10ns

Revisit Time = 40ms

Time (ns)



Solution 2

Dwell Duration = 20ns

Revisit Time = 50ns

Time (ns)

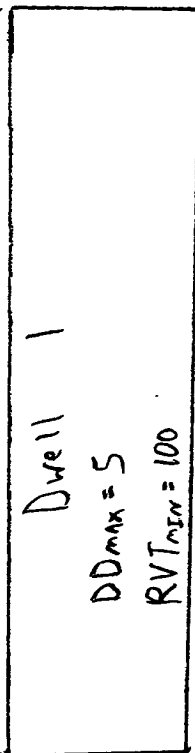
Figure 12

4000

Emitter Name	Driving Amp 250 mHz IF 15 mHz VDW RV T	Driving Amp 30 mHz IF 15 mHz VDW RV T	RF Min (MHz)	RF Max (MHz)	Mod (ms)
E1	100 ns	650 ns	1000	1300	3
E2	100 ns	780 ns	1220	1350	5
E3	110 ns	330 ns	1510	1810	2
E4	130 ns	390 ns	1730	1860	4

Figure B

1000 1250



Solution 1

$$\text{Cost} = \frac{5}{100} = 0.05$$

	1000	1050	1100	1150	1200	1250
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7
DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax
3	3	3	3	3	3	5
RVTmax	RVTmax	RVTmax	RVTmax	RVTmax	RVTmax	RVTmax
650	650	650	650	650	650	650
Cost	Cost	Cost	Cost	Cost	Cost	Cost
$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{5}{650} =$						

Solution 2

Total  
Cost

$$\frac{31}{650} \approx 0.048$$

Figure 14A

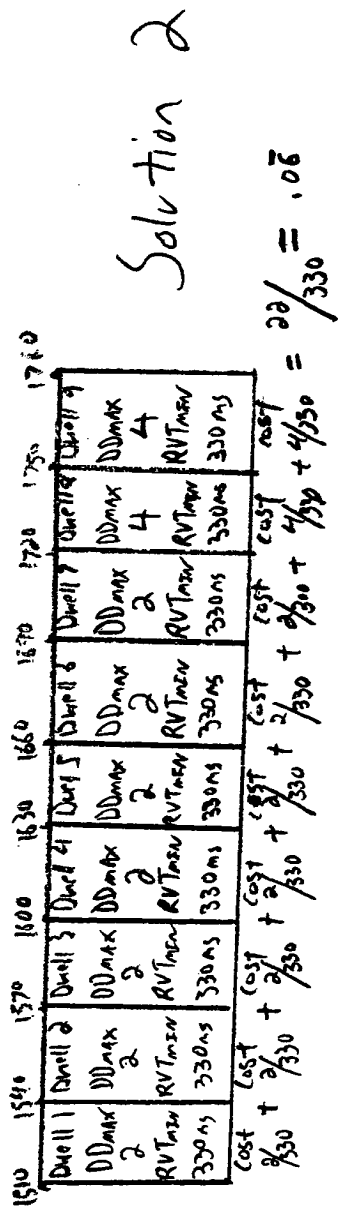
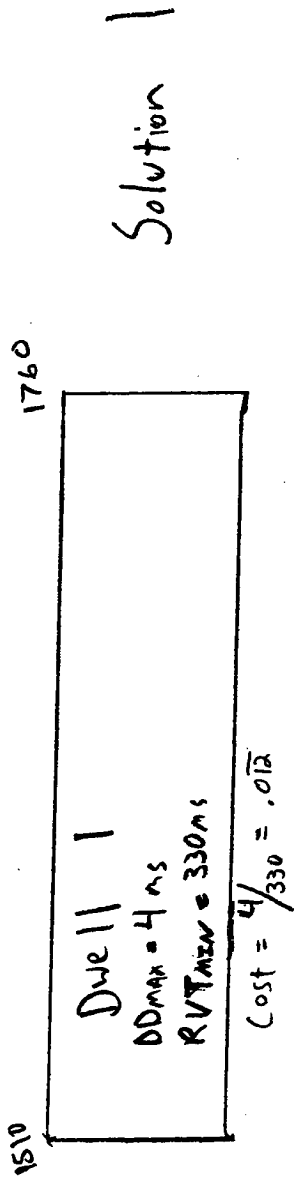


Figure 14B

Figure 15

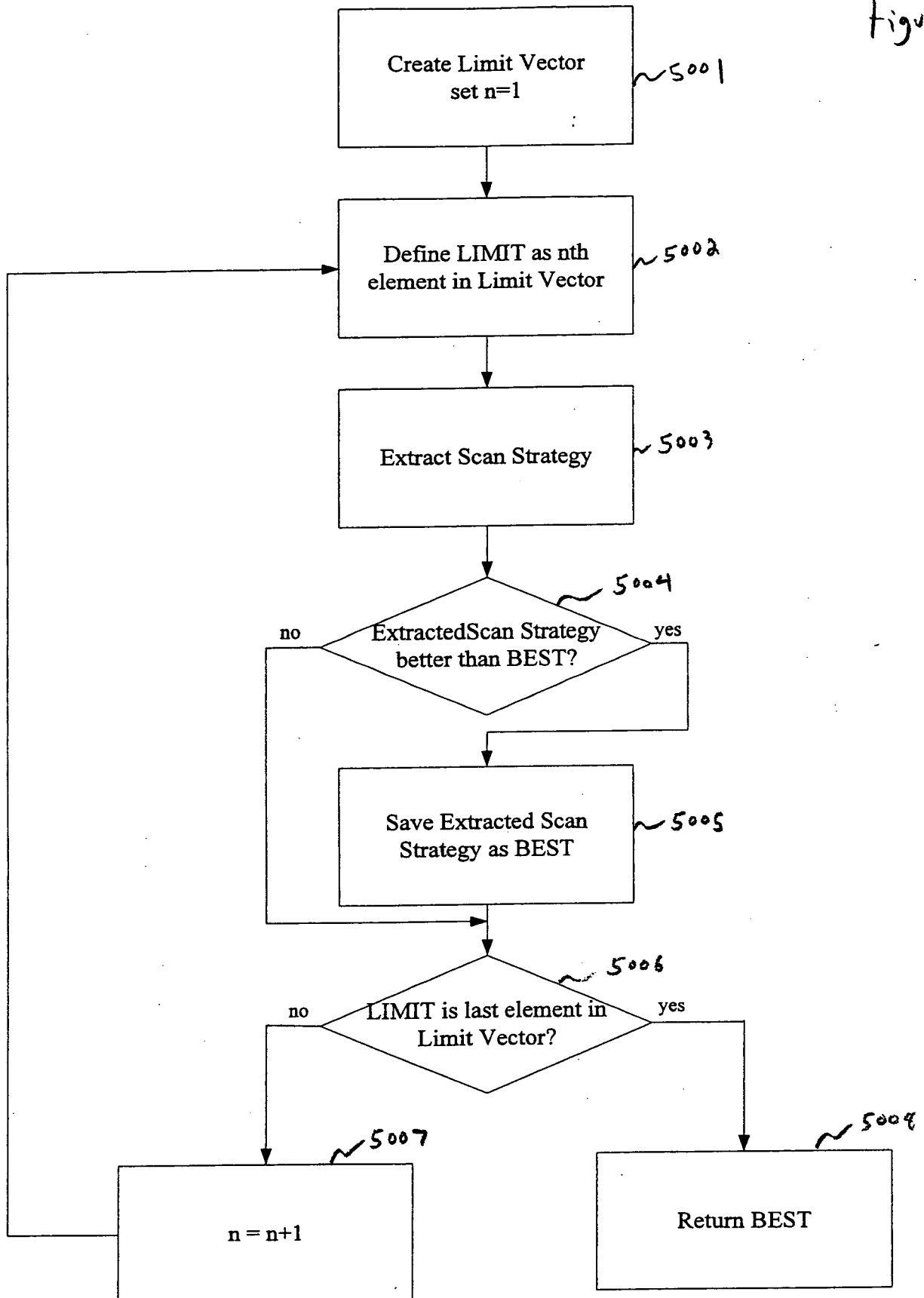
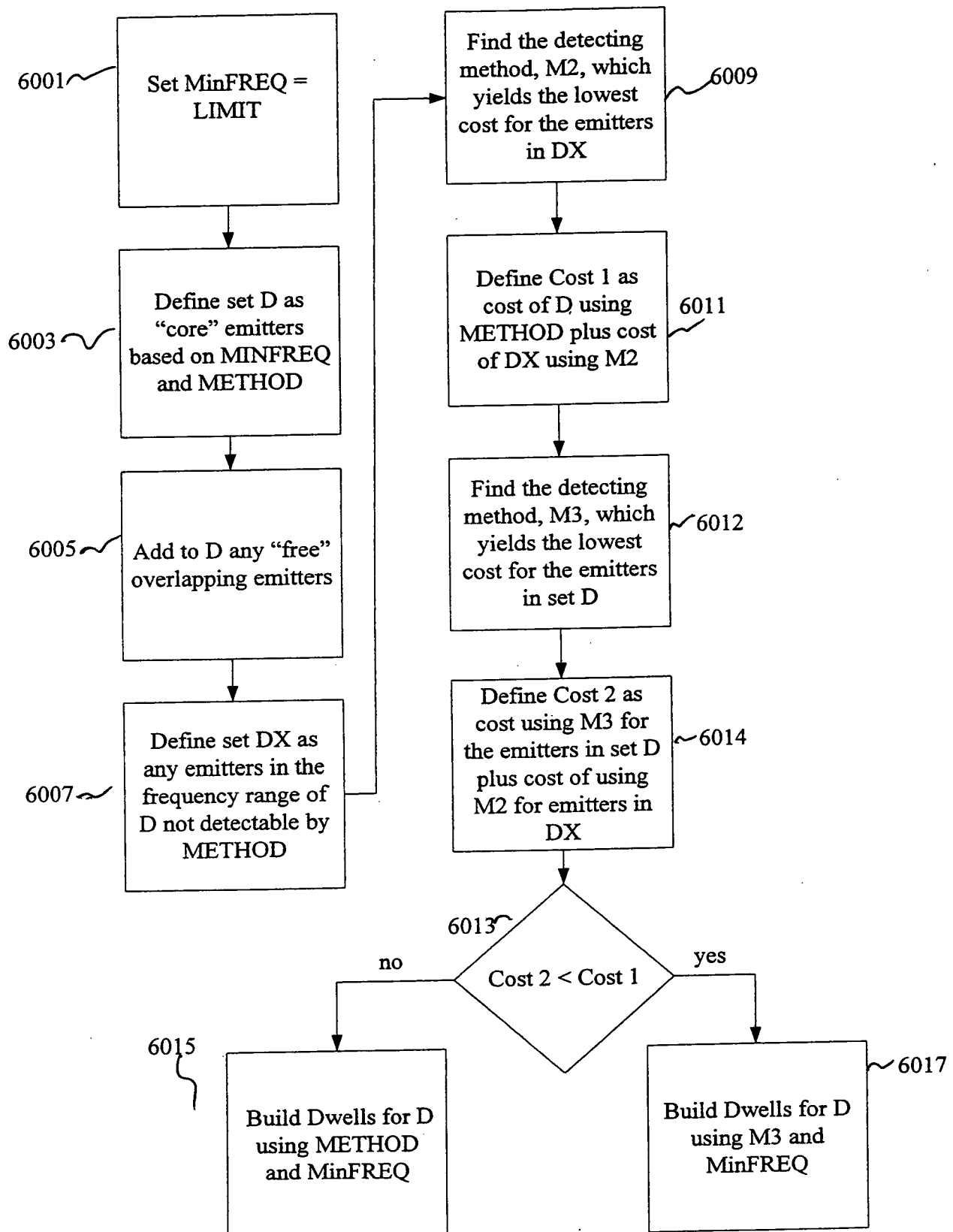




Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

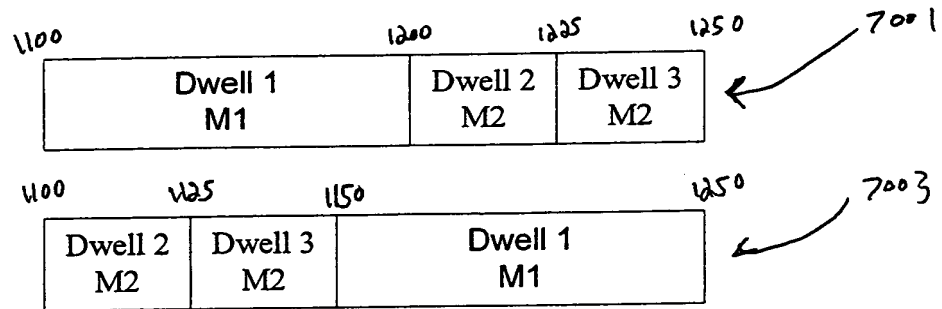
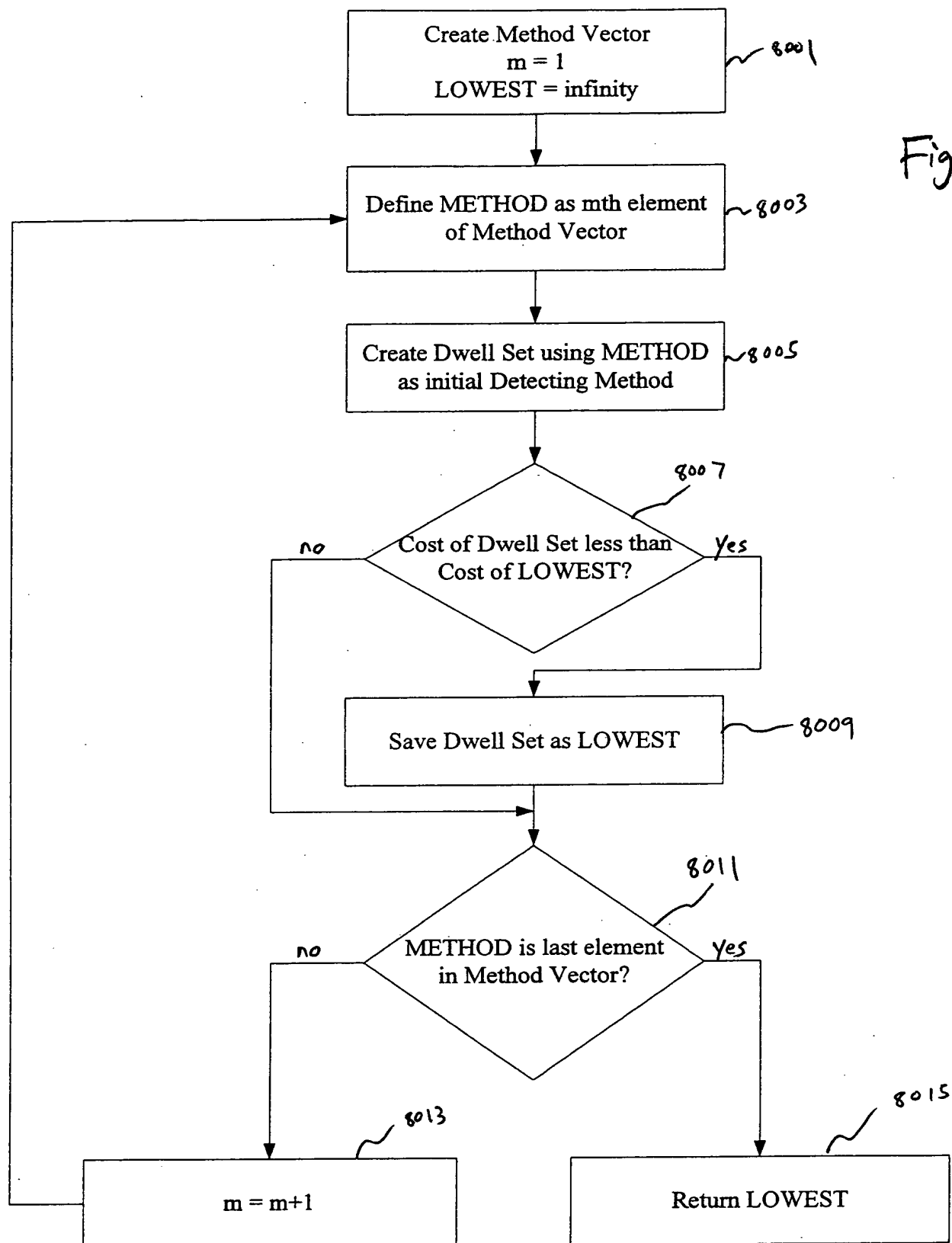


Figure 17

Figure 18



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

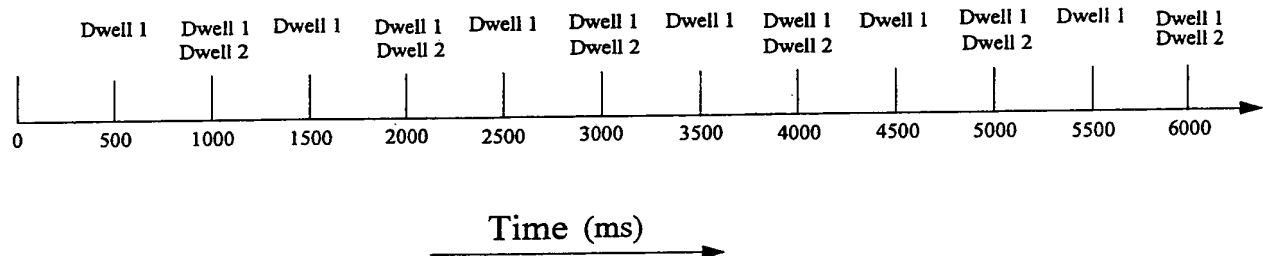


Figure 21

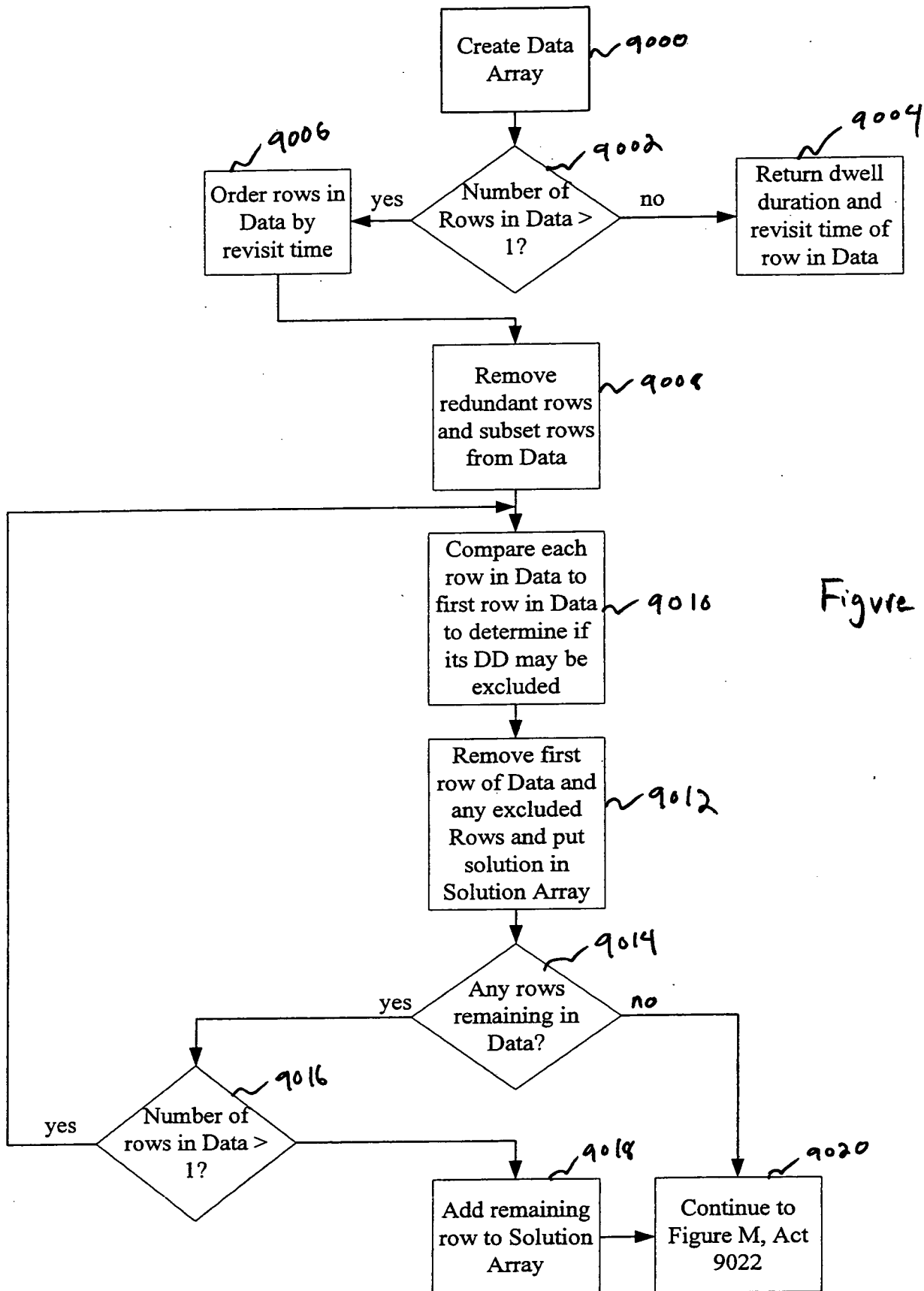


Figure 22

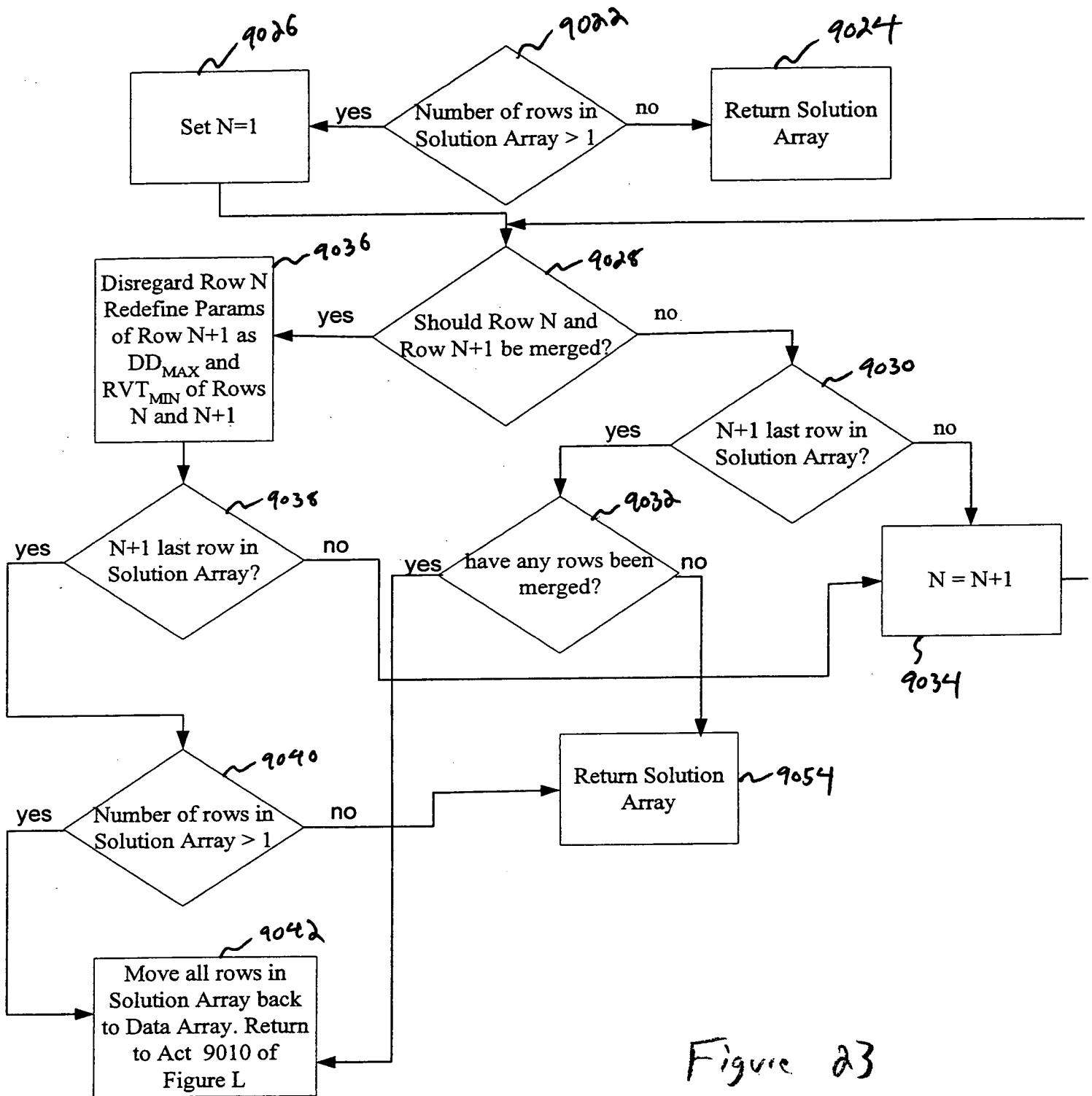


Figure 23



9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048  
9049  
9050

Figure 24B

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

9051  
9052

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

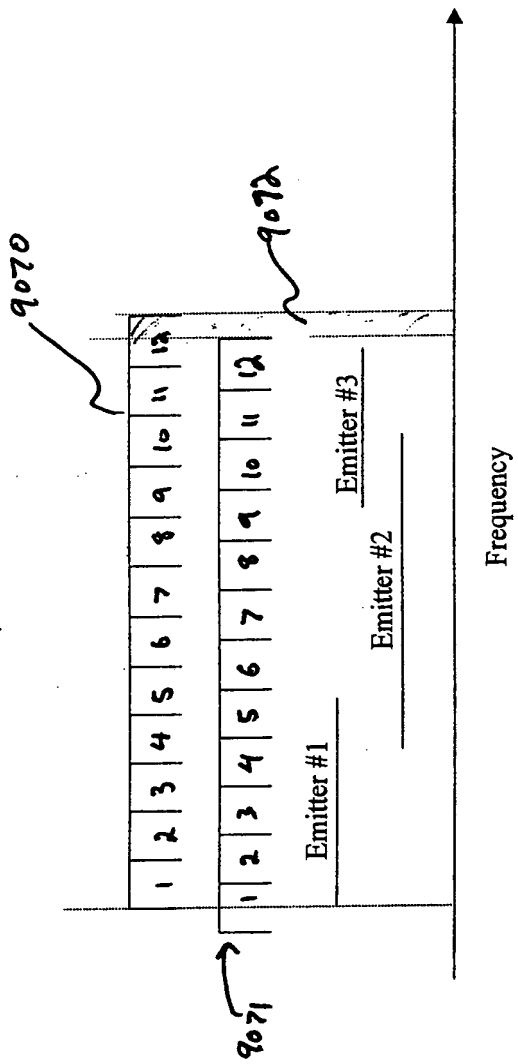


Figure 25

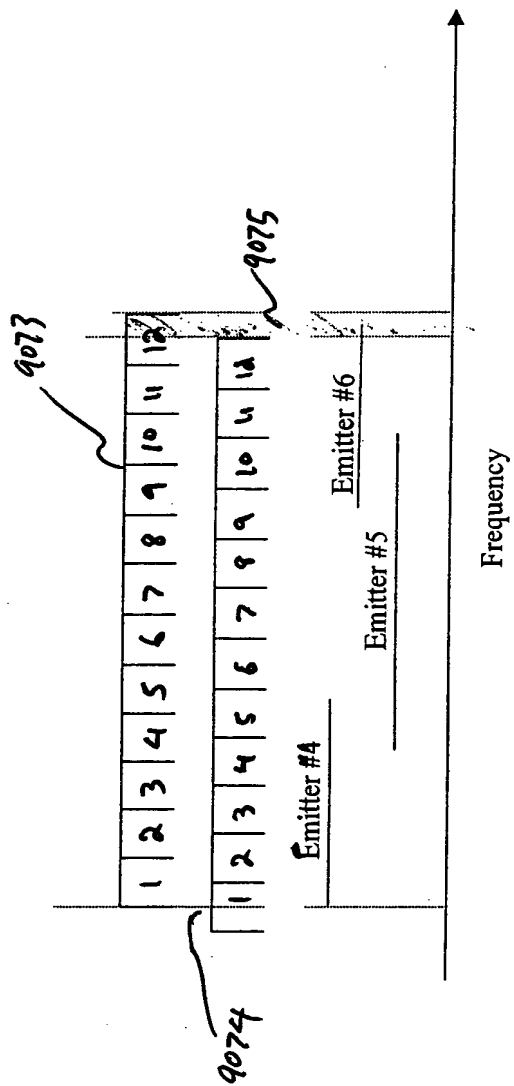


Figure 26

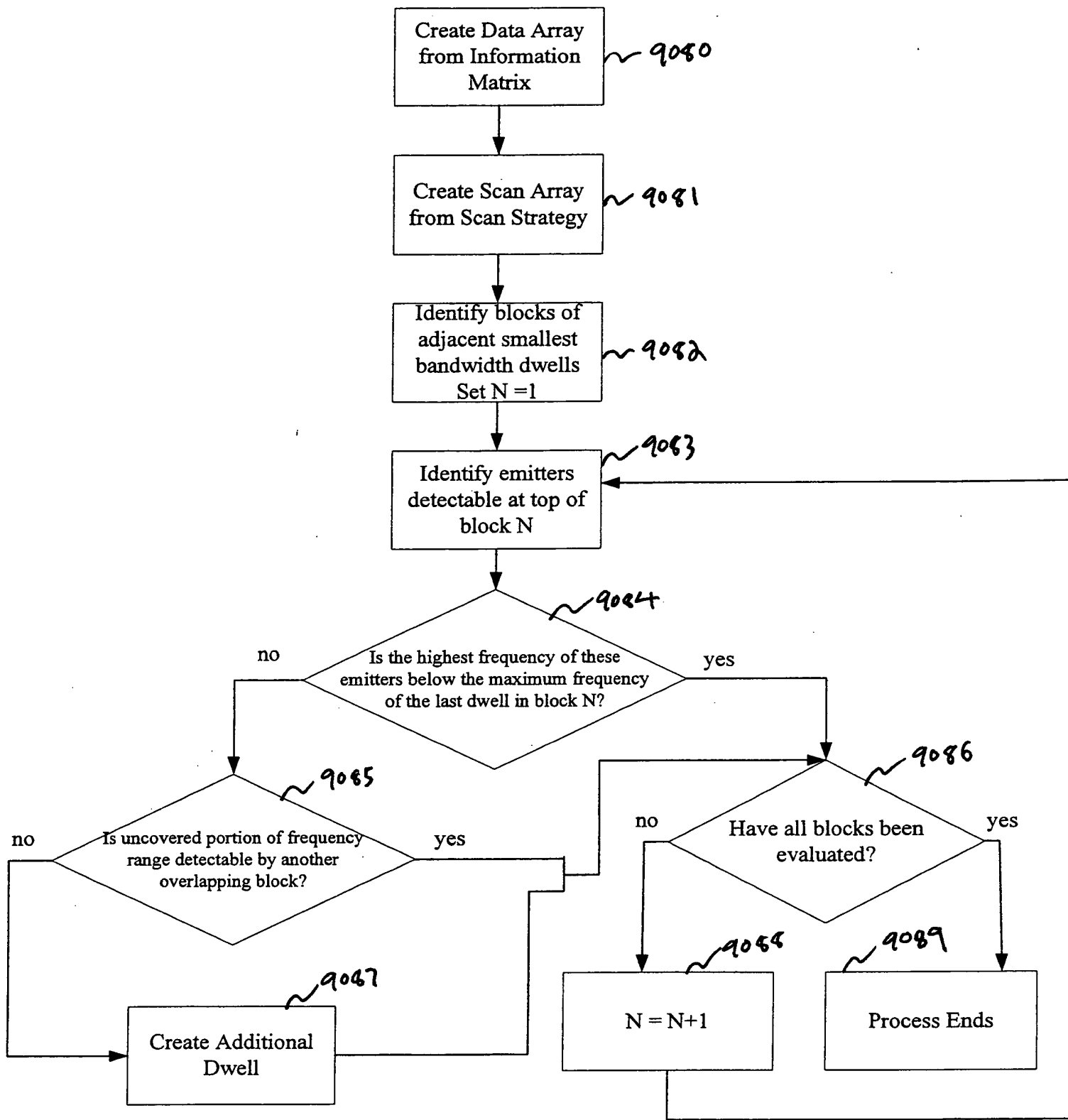


Figure 27

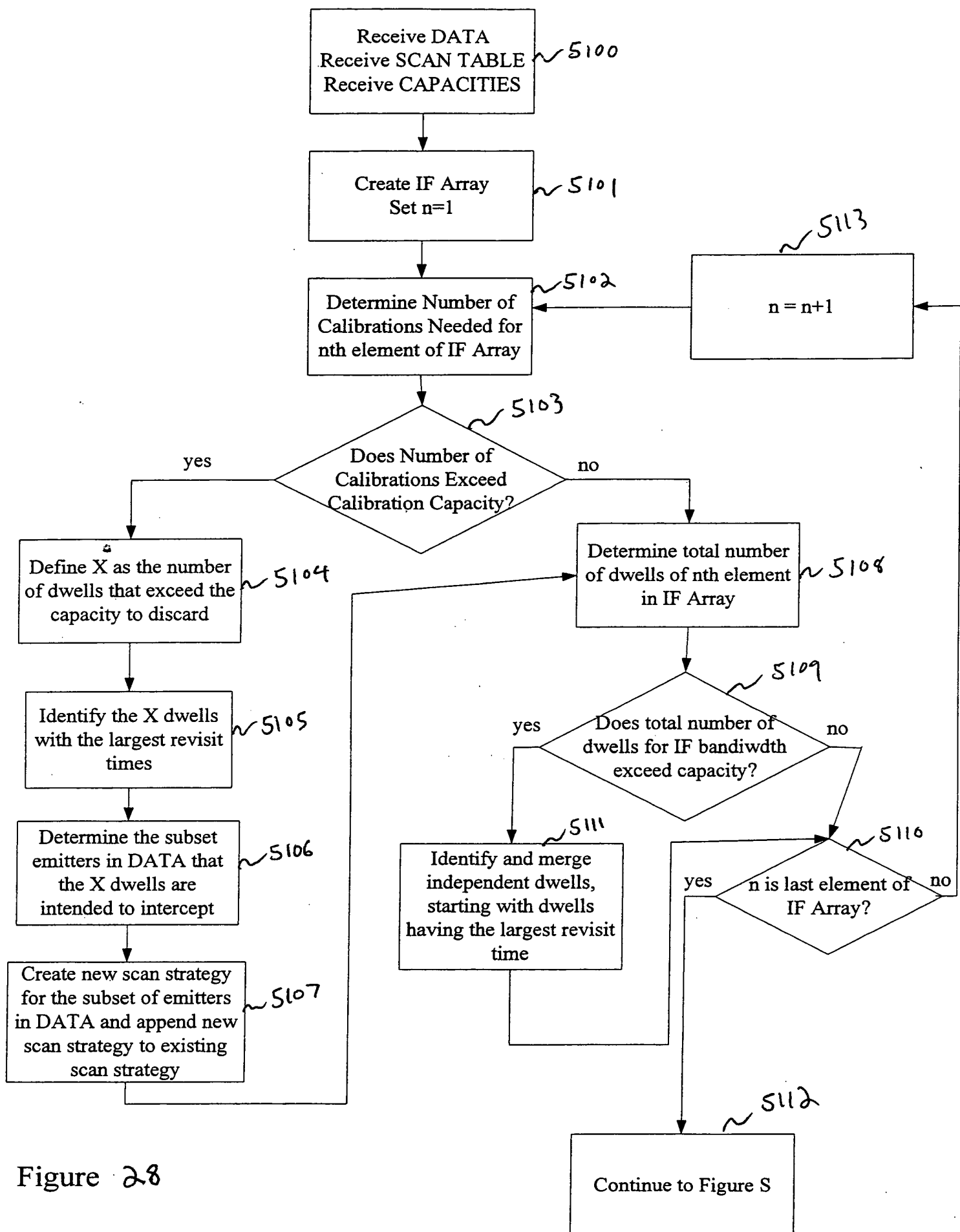


Figure 28

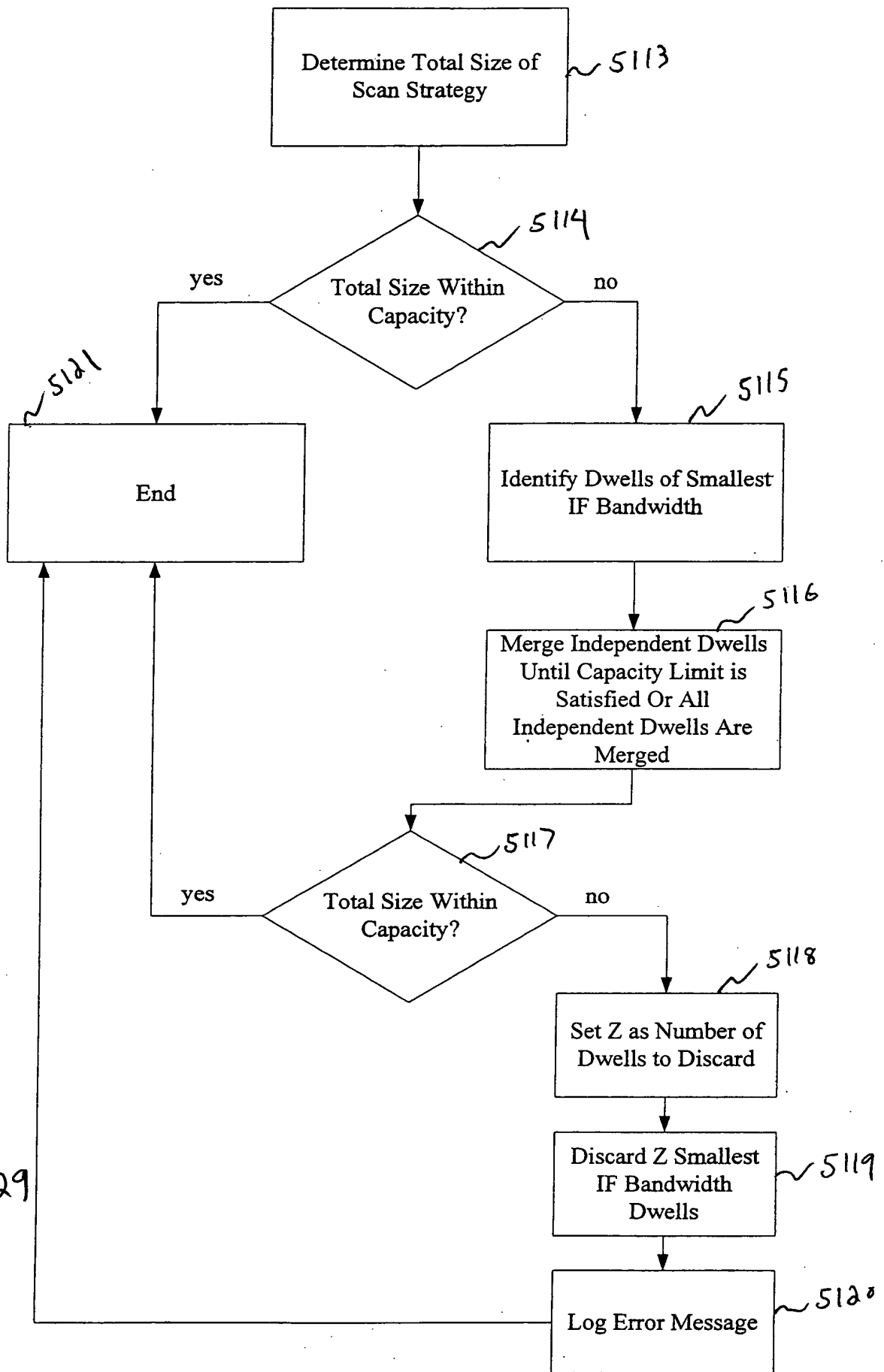


Figure 29

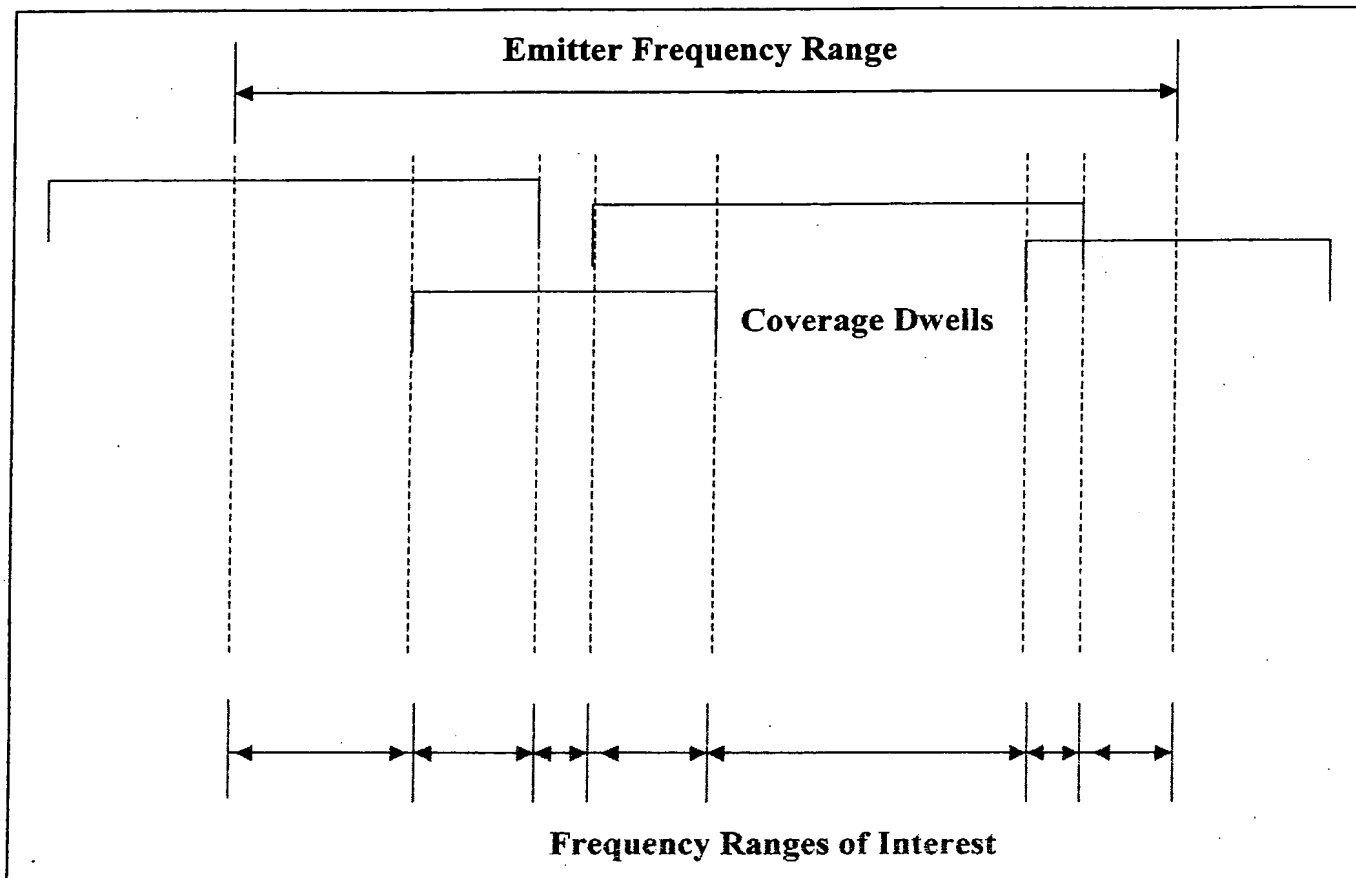


Figure 30

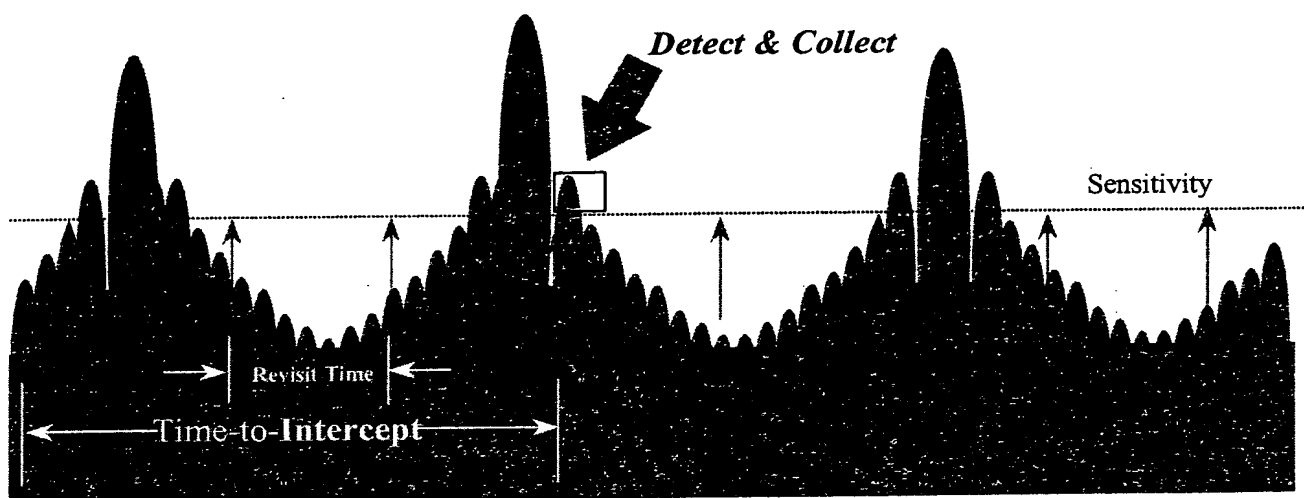


Figure 31



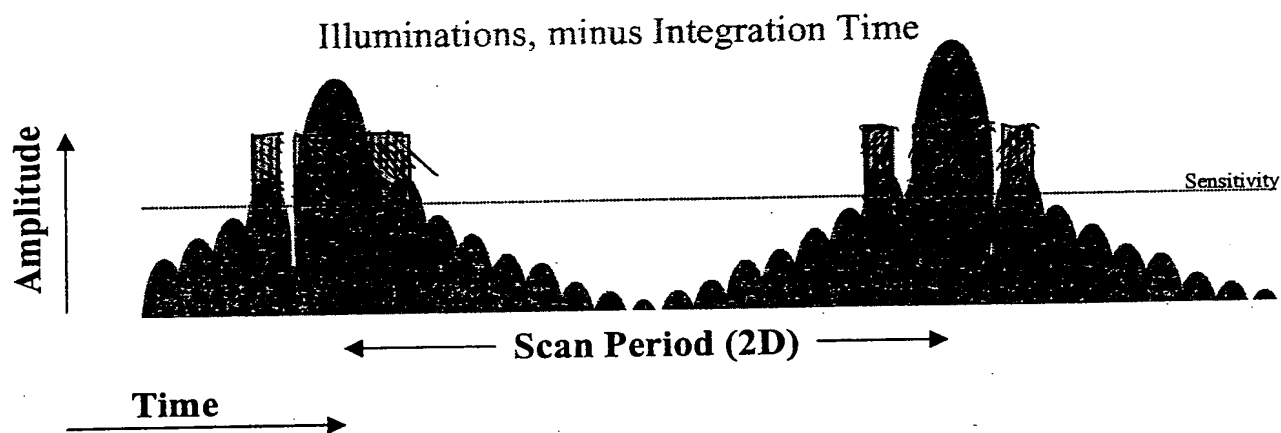


Figure 32